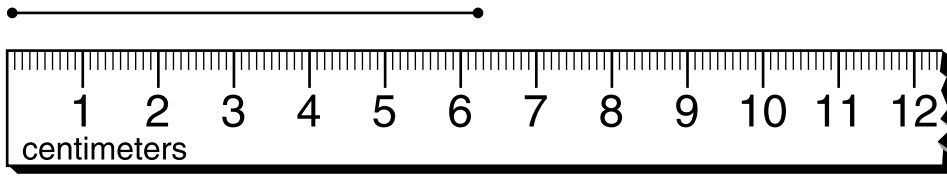


# Metric Units of Length



Use a metric ruler to measure this line segment to the nearest decimeter, centimeter, and millimeter.

**Think:** Is the length of the line segment closer to 0 dm or 1 dm?

1 dm

## Metric Units of Length

- 10 millimeters (mm) = 1 centimeter (cm)
- 10 centimeters = 1 decimeter (dm)
- 10 decimeters = 1 meter (m)
- 1,000 meters = 1 kilometer (km)

**Think:** Is the length of the line segment closer to 6 cm or 7 cm?

6 cm

To the nearest millimeter, the line segment measures 63 mm.

Find  $7 \text{ km} = \square \text{ m}$

<p><b>Step 1:</b> Use the table to find the relationship between kilometers and meters.</p> <p><math>1 \text{ km} = 1,000 \text{ m}</math></p>	<p><b>Step 2:</b> Decide if you should multiply or divide.</p> <p>A kilometer is larger than a meter.</p> <p>To change a larger unit to a smaller unit, multiply.</p>	<p><b>Step 3:</b> Multiply.</p> <p><math>7 \times 1,000 = 7,000</math></p> <p><math>7 \text{ km} = 7,000 \text{ m}</math></p>
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Use a ruler to measure each line segment to the nearest decimeter, centimeter, and millimeter.

1.

\_\_\_\_\_

2.

\_\_\_\_\_

3.

\_\_\_\_\_

Complete.

4.  $7 \text{ dm} = \underline{\hspace{2cm}} \text{ cm}$

5.  $\underline{\hspace{2cm}} \text{ dm} = 6 \text{ m}$

6.  $350 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$